SIEMENS

ARCADIS Varic

Update Instructions   SP003/05/P

SP003/05/P: Replacing Sony printer LPR 1000

Reason for Update: **Performance**

Urgency:		x	Immediate	Within	months
Update material required for classic update?		x	Yes	No	
Remote update possible?			Yes, without CSE	Yes, with CSE x No	
File download available?			Yes	x No	
Materials free of charge?		x	Yes	No	
Return of parts?		x	Yes	No	
Estimated completion time:		5	hrs.	1 Number of CSEs:	
Customer training?			Yes	x No	

Affected systems/products/system-identifying IVK

Name	Material no.	Serial no.
ARCADIS Varic	80 80 017	See supplementary sheet

Components affected/to be modified/IVK

Name	Material no.	Serial no.	Component status affected
n.a.	n.a.	n.a.	n.a.

Chg.Ref.No.:

Name: Loskarn Oswald

Dept.:   CS SD 24

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

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Affected systems/products

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Material no. 80 80 017

Sweden

Serial no. 10040, 1004, 10042,

Germany

Serial no. 10029

Canada

Serial no. 10022

South Africa

Serial no. 10024

Reason for the update

1. Installation of bugfix 1. This is comprised of the new main system software and bugfix update VA00A.

2. Replacement of Sony printer LPR1000 with Sony printer UP-D72XR.

Requirements

1. Update Instructions SP024/04/P must be followed.

As a result, imaging system software VB11 is installed, for example.

Special tools/documents

n.a.

Ordering information

An order is not necessary.

The following materials are sent to the technical manager listed below.

Sony

Sony printer UP-72 is sent directly from Sony to the technical manager.

Siemens Erlangen

The following materials and documentation are sent directly from Siemens Erlangen to the technical manager.

- System CD VA00D

- Main system VA01E CD

- Bugfix Update VA00A CD

- Documentation: UI SP003/05/P

- Documentation: Troubleshooting Guide

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Contents of the update kit

Not applicable, since the required parts and documentation are sent directly to the relevant parties.

Returns

The following parts must be returned:

- Sony printer LPR 1000

The printer must be packaged correctly!

It must not move within the packaging.

No credit will be issued for returns that have been damaged as a result of incorrect packaging.

Return the printer to:

Sony Deutschland GmbH

c/o Klaus Cramer

Hugo-Eckener-Strasse 20

50829 Köln

Germany

Fax the delivery receipt to:

+499131 84 8670

Sony printer UP-D72XR

Perform the following steps according to the printer "start-up manual":

- Unpacking (see the "Preparation" section).
- Installing the head cassette (see the "Preparation" section).

  Important: Remove the locking devices from the head cassette.
- Installing the ink cartridges (see the "Preparation" section).
- Switching on the printer (see the "Preparation" section).
- Installing the head cleaning unit (see the "Preparation" section).
- Installing the automatic paper feed tray (see the "Preparation" section).

NOTE	**Keep the transport safety materials. They have to be used when replacing or shipping the printer.**

Sony printer installation

Mounting frame installation

- Switch off the system.

- Remove the front cover of the monitor carriage.
- Remove the rear cover of the monitor carriage.
- Remove Sony printer LPR 1000.
- Place the new printer in the monitor carriage and adapt the spacer plate of the monitor carriage as needed (secure from above via 4 threads).

- Connect the power cable to the printer.
- Do NOT YET connect the USB cable to the printer.
  - This cable must first be connected after installation of the printer software.
- Set the power switch to "1".

Data to record

Service key

- Record the service key ....
  - It can be found, for instance, in the system binder.

Computer name

- Record the computer name...
  - It can be found in the service software under Configuration/Local host/TCP IP LAN/Computer name.

Administrator password

- Assign and record the administrator password ....
  - The password is assigned in the service software under Configuration/Local host/Users.

Backup

- Perform a backup operation.
  - This is described in the included "Troubleshooting Guide".

Exam set

- Open the service software.
- Click "Reports".
- Click "Exam sets" under "Remote diagnostics".
  - ⇨ This generates the "examination set configuration" report.
- Click "Exit".

Burning log files to CD

- Insert a blank CD.
- Select "Event log".
- In the upper command line, click "Burn log files".
  - ⇨ This generates the log files.
  - ⇨ This saves all files located in the extract folder on CD-ROM.
- Remove the CD from the CD-ROM drive and label it.

Installation

Main system software installation

- Open the service software.

- Select "Main system".
    - If the "Main System" button is not visible, check the connection between the monitor carriage and the main system.

- Click "Next".
    - Do not make any changes.

Main system download

- Select "C-arm" under "Download"
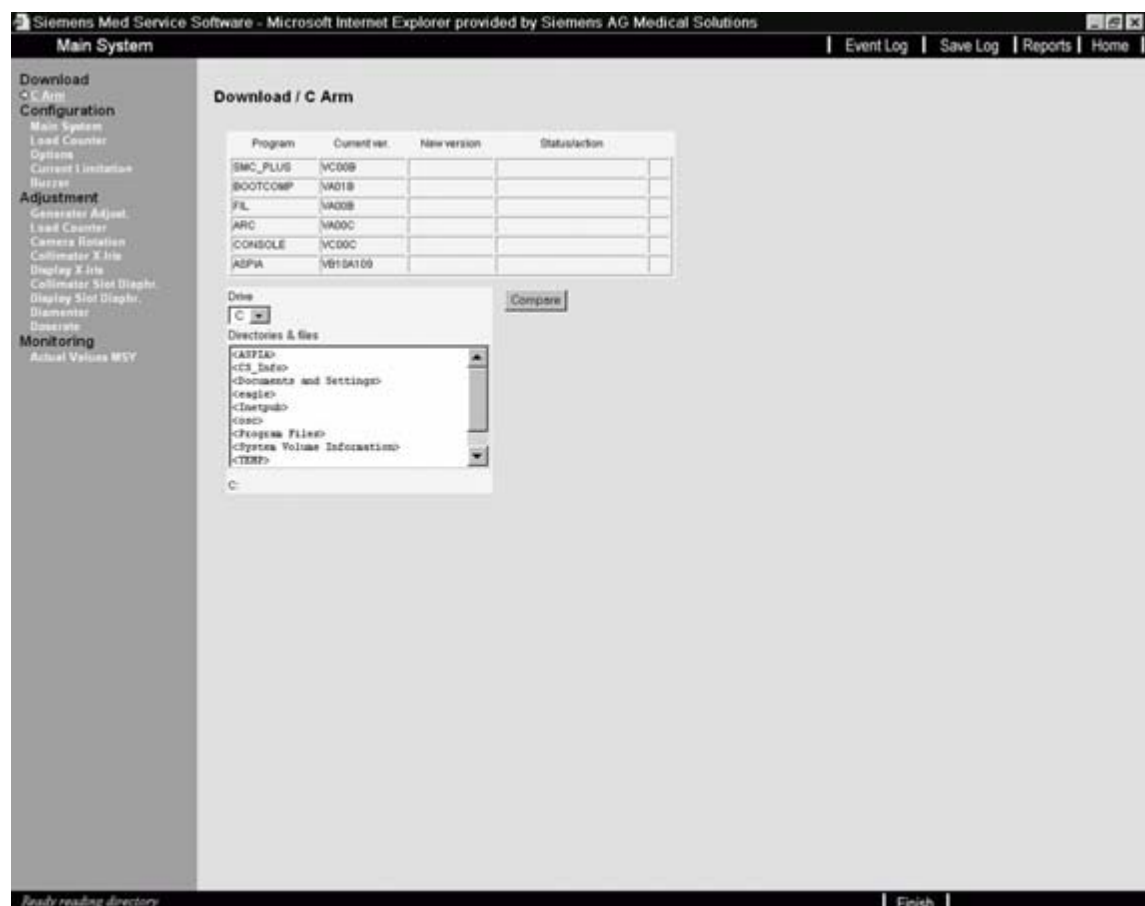   - The installed programs are displayed under "Current ver.".

Fig. 1:   Main System >> Download >> C-arm

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- Insert the "Main System VA01E" CD in the CD-ROM drive.
- Select CD drive "R" under "Drive".
- Select the file to be checked "SMC_Plus_VC01E.BIN " under "Directories & files".
- Click "Compare".
  - The file version is displayed under "New version", and a recommended action (e.g., update necessary) is displayed under "Status/action".
  - A checkmark appears automatically in the last column, if this program has to be installed again.
    - ⇨ "Update necessary" is displayed.
- Click "Download".
  - Only one program should be selected. Otherwise, installation problems may occur.
    - ⇨ The software is installed.
    - ⇨ The main system restarts.
- Click "Finish".
- Remove the CD from the CD-ROM drive.

NOTE	**It is not necessary to perform a restore operation or make any adjustments after a main system software installation. The parameters are stored in EE Prom.**
	A restore is required only if the D1 of the main system has been replaced.

Sony UP-D72XR printer installation via USB

NOTE	**This printer is only allowed starting with imaging system software VB11.**

Preparation

- Check whether the "VA00D" system CD is available.
- Ensure that the printer is not connected to the PC.
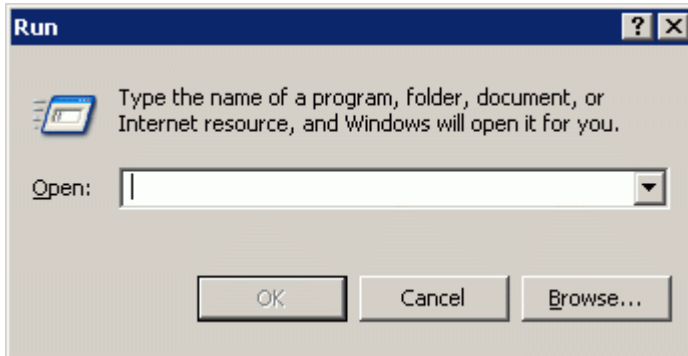
Administrator

- Log on as administrator.

Deleting a printer

- Click the Windows "Start" button in the task bar.
- Select "Settings".
- Select "Printer and faxes".
    - ⇨ A printer is displayed.
- Click on the printer.
    - Sony LPR 1000
- Click the right mouse button.
- Click "Delete".
    - If print jobs are still present, the printer cannot be deleted. Delete these print jobs.
    - ⇨ The following is displayed: "Are you sure you want to delete the printer ' ....' "
- Click "Yes".
    - ⇨ The following is displayed: "Warning: The default printer has been deleted,' ....' "
- Click "OK".
- Close the "Printer and faxes" window.
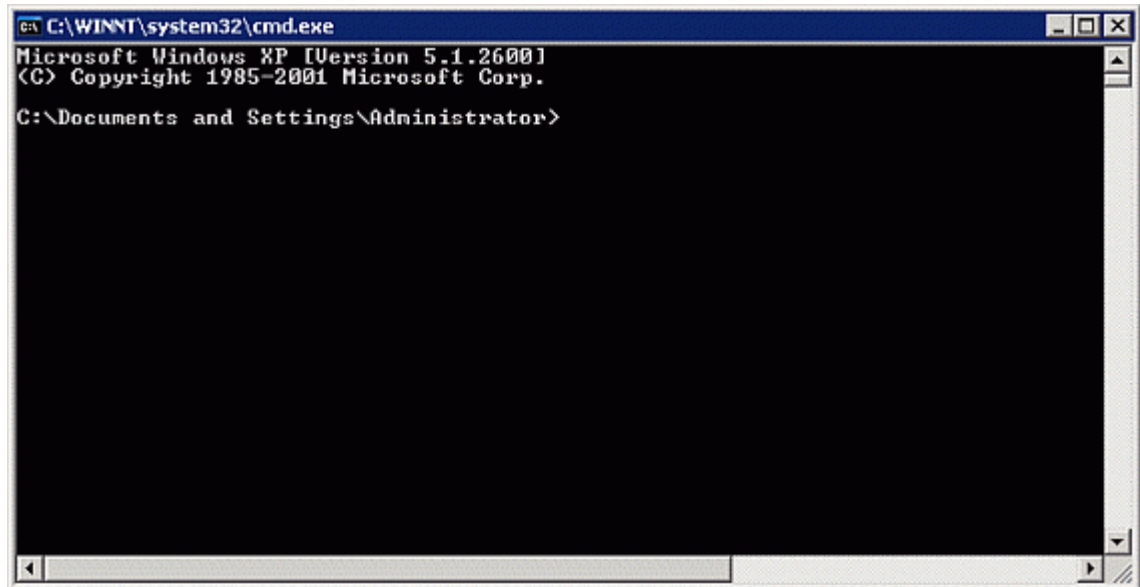
Installing bugfix update VA00A

- Insert the "Bugfix Update VA00A" CD.
- Click "Start" in the Windows task bar.
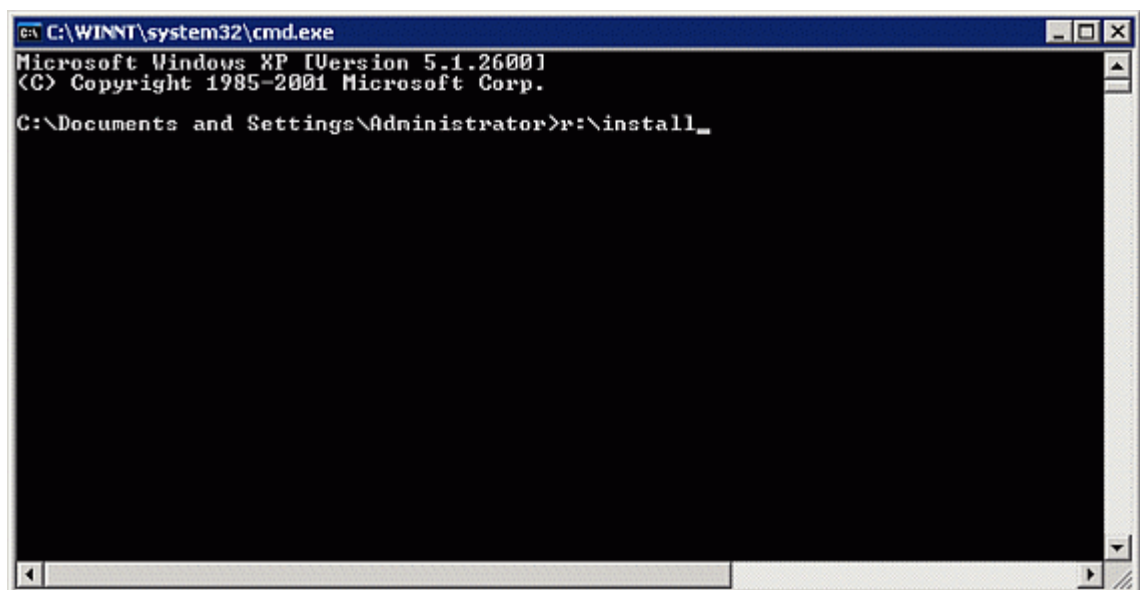- Click "Run".

- Enter "cmd".
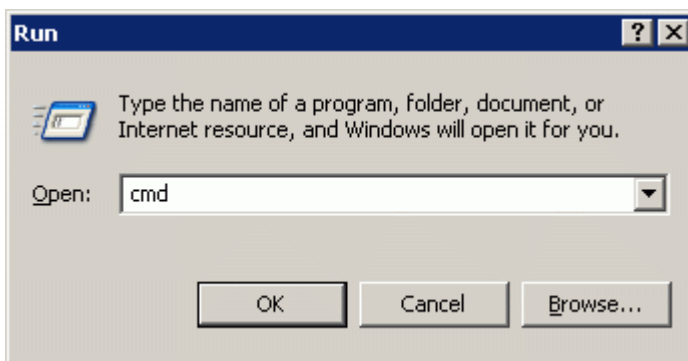
- Click "OK".
  - ⇨ The following path is displayed: "C:\Documents and settings \ Administrator>"

- Enter "r:\install".

- Press "Enter".
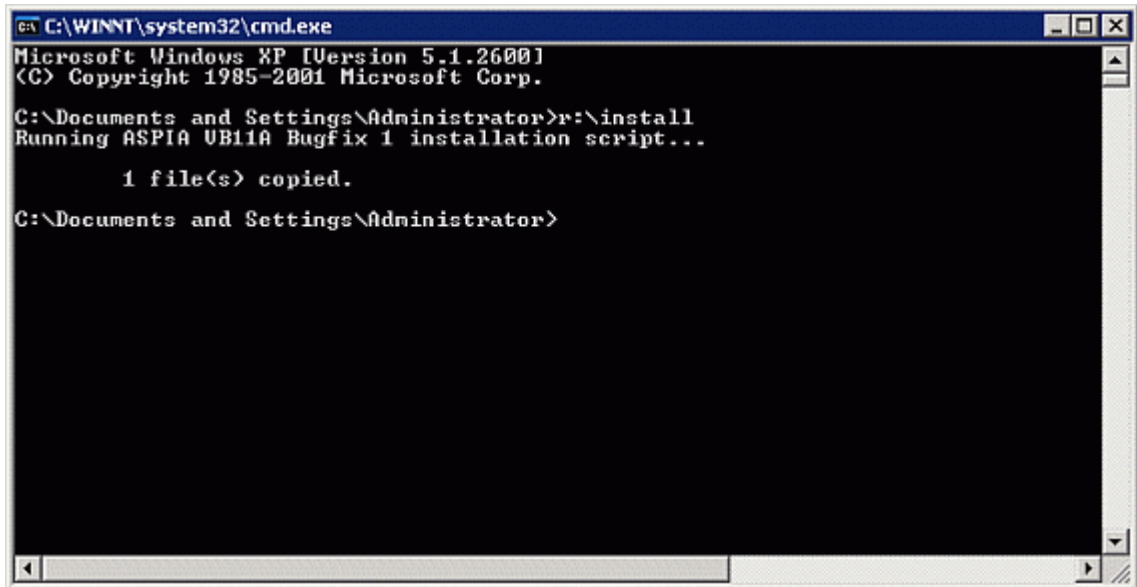   - ⇨ The bugfix file is installed.

```
C:\WINNT\system32\cmd.exe

Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>r:\install
Running ASPIA VB11A Bugfix 1 installation script...

        1 file(s) copied.

C:\Documents and Settings\Administrator>
```

- Remove the CD from the CD drive.

  ⇨ The Setup Wizard is automatically displayed.

Printer driver installation
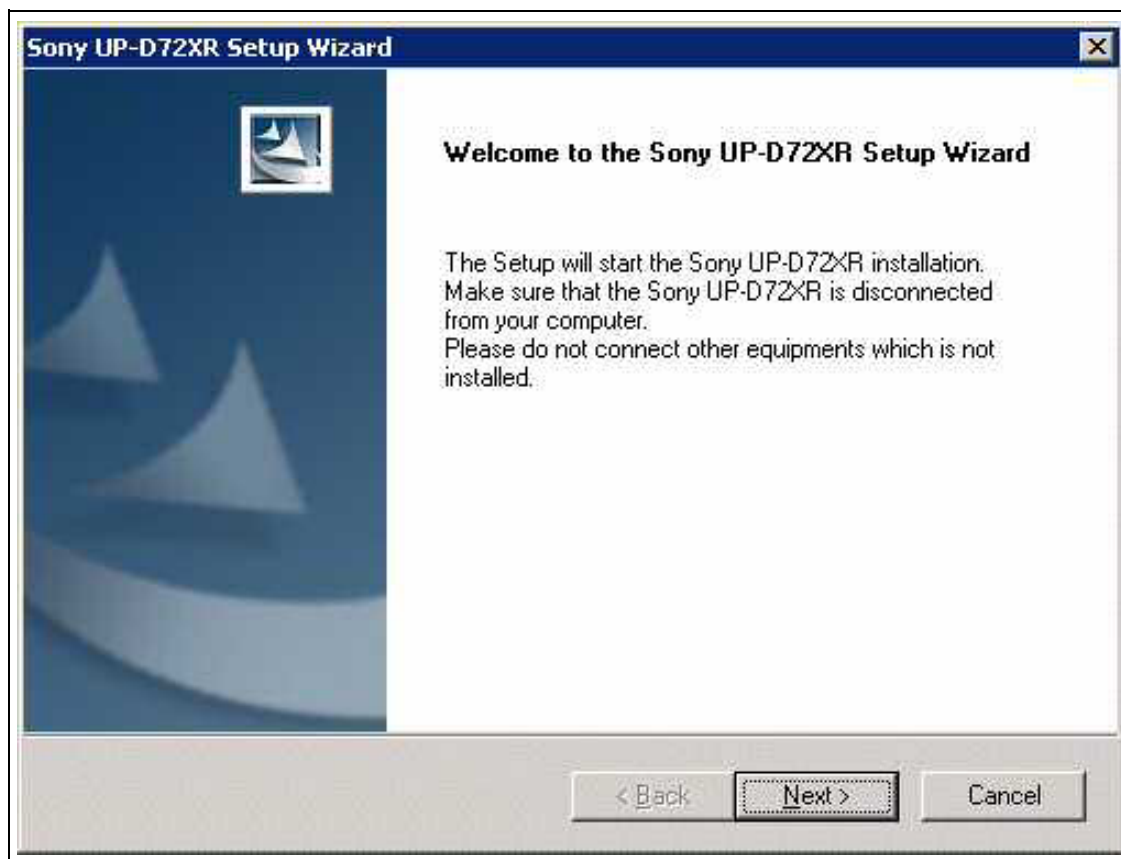
Fig. 2:   Sony 3

- Click "Next".

    ⇨ The "license agreement" is displayed.

- Click "Yes".

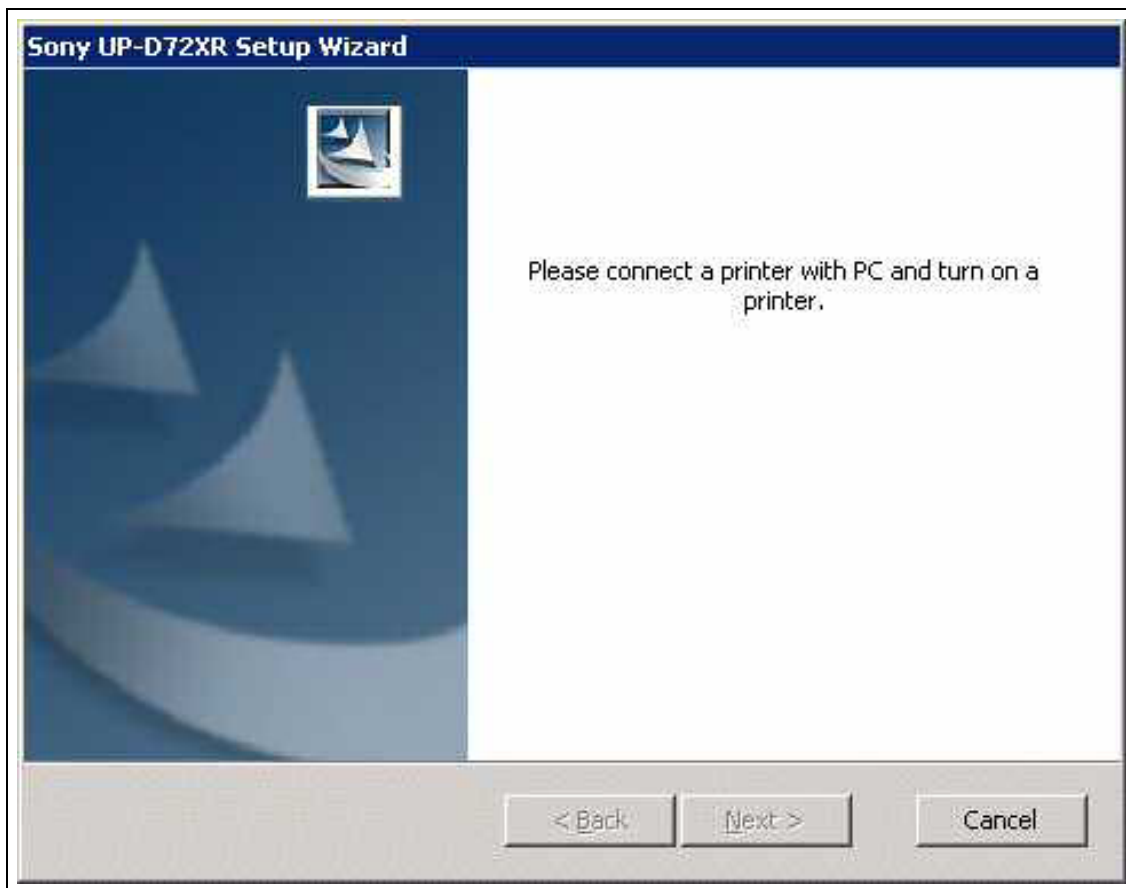   ⇨ The "Setup Wizard" starts.

Fig. 3:   Sony 1

- Establish the USB connection between the printer and the imaging system PC when the above picture is displayed.
- Click "Next".
  - ➪ The driver is installed.
  - ➪ The following is displayed:"Sony UP_72XR Setup Wizard Complete".
- Click "Finish".
- Remove the "system CD" and close the tray.

Change the printer name.

- Click the Windows "Start" button in the task bar.
- Select "Settings".
- Select "Printer and faxes".
- Right-click on the "Sony UP-D72XR" printer.
- Click "Rename".
- Change the printer name from "Sony UP-D72XR" to "UP-D72XR ....Codonics".
  - Instead of the periods between UP-D72XR and Codonics, enter 13 spaces.
    This setting is needed for the hardcopy function.
- Press "Enter".
  - ⇨ This applies the printer name.

Printing preferences

- Right-click on the "Sony UP-D72XR" printer.
- Click "Properties".
  - ⇨ A new window opens.
- Click "Print test page".
- Click "OK".
  - ⇨ A test page is printed.
- Click "Printing preferences ...".
- Deselect "Margin print".
- Click "Apply".
- Click "Graphics".
- Set "sharpness" to "1".
- Set "dark" to "0".
- Set "gamma" to "+8".
- Set "light" to "-8".
- Click "Apply".
- Click "Save".
  - ⇨ The "Save settings" window is displayed.
- Click "Save".
  - ⇨ The displayed window is automatically closed.
- Click "OK".
  - ⇨ The displayed window is automatically closed.

- Click "OK".
  - ⇨ The displayed window is automatically closed.
- Log off as administrator.
- Switch the complete system off and on 4 times.
  - This is necessary to activate the installed printer on all syngo levels.

Setting up the default printer for reporting

- Click "Options" on the examination task card.
- Click "Configuration".
- Double-click on "Structured reporting".
- Select the installed printer under "Default printer".
  - Even if the installed printer is already displayed.
- Select "8x10" under "Default paper size".
  - Even if "8x10" is already displayed.
- Click "Apply".
- Click "OK".
- Close the syngo configuration panel.

External devices

- Open the service software.
- Select "Configuration".
- Click "Next".

Paper printer

- Select "Paper printer" under External devices.
  - If a "Paper printer" cannot be selected, "Paper printer" must be selected in the service software options under Configuration.

Available paper printer media formats

- Select "A4" and "8x10" and deselect all other formats.
- Click "Save".
  - ⇨ The following is displayed: "printer data successfully saved"
- Click "OK".

LUT files

- Select "PS LUT files".
- Ensure that "Use LUT for postscript printers" is selected.
- Ensure that "Use floating zoom factors" is not selected.

Characteristic curve

- Select the "PrinterLUT_Gamma_2" characteristic curve under "PS LUT directory".
- Click "Select".
    - ⇨ The selected characteristic curve is displayed under Current LUT.
- Click "Save".
- Click "Home".
    - ⇨ "A restart of application SW is necessary to make changes valid" is displayed.
- Click "OK".
    - ⇨ The system performs a restart.

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Loading settings

This is necessary in order to activate the settings for the "MedUser".

- Open the service software.
- Select "Utilities" under Home menu.
- Select "Escape to OS" under Source.
- Select "NT Command Interpreter" under Command.
- Select "Explorer" under Parameter.
- Click "Go".
  - ⇨ Explorer is displayed.
- Select "My Computer".
- Click "Control panel" under "Address".
- Click "Printers and other hardware".
- Click "View installed printers or fax printers".
- Right-click on the "Sony UP-D72XR" printer.
- Click "Properties".
  - ⇨ A new window opens.
- Click "Printing preferences ...".
- Ensure that "Margin print" is deselected.
- Click "Apply" if possible.
- Click "Graphics".
- Click "Load".
  - ⇨ The "Load settings" window is displayed.
- Click "Open".
  - ⇨ The "Load settings" window is automatically closed.
- Click "Apply".
- Click "OK".
  - ⇨ The displayed window is automatically closed.
- Click "OK".
- Close the "Printer and faxes" window.
- Close the service software.
- Switch the system completely off and restart it.

Printer test

Preparation

- Check whether the system CD is available.

Printing a test image

- Open the service software.
- Call up the "SMPTE" test image under Service patient.
- Create a film request.
- Ensure that film is used for printing if possible.
- Select "OK".
    - ⇨ A test image is printed.

Print quality

- Compare the "SMPTE" test image to the "SMPTE" test image displayed on the monitor. The minimum contrast in the 5% field and in the 95% field must be visible.

Result 1: Test image is identical.

The printed "SMPTE" test image is identical to the "SMPTE" test image displayed on the monitor.

- No further action necessary.

Result 2: Test image is lighter.

The printed "SMPTE" test image is lighter than the "SMPTE" test image displayed on the monitor.

- Check whether the "PrinterLUT_Gamma_2" characteristic curve was activated, as previously described, and activate it if necessary.
- Generate another "SMPTE" test image and compare it.

Result 3: Test image is darker.

The printed "SMPTE" test image is darker than the "SMPTE" test image displayed on the monitor.

- Open the service software.
- Select "Configuration".
- Click "Next".

LUT files

- Select "PS LUT files" under External devices.
- Ensure that "Use LUT for postscript printers" is selected.
- Ensure that "Use floating zoom factors" is not selected.

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Characteristic curve

- Insert the "system CD" and close the tray.
- Select "R:\" under Drive.
- Select "Printer LUT" under "Source path".
  - The greater the number of LUT files, the lighter the printed image is.
- Select "PrinterLUT_Gamma_1_2" under "Source path".
  - Always only one printer LUT can be selected.
- Click "Import".
  - ⇨ The following is displayed: "File successfully copied".
- Click "OK".
- As described above, select and import all printer LUTs up to PrinterLUT_Gamma_1_9
- Select the "PrinterLUT_Gamma_1_6" characteristic curve under "PS LUT directory".
- Click "Select".
  - ⇨ The selected characteristic curve is displayed under Current LUT.
- Click "Save".
- Remove the "system CD" and close the tray.
- Generate another "SMPTE" test image and begin again at the "Print quality" section.

NOTE	**If the test image is again too dark or too light, activate other printer LUTs, i.e., instead of PrinterLUT_Gamma_1_6, use, for example, PrinterLUT_Gamma_1_4 for a test image that is too light or PrinterLUT_Gamma_1_8 for a test image that is too dark.**

Final test

Radiation summary report

- Make an exposure for test purposes and then print the radiation summary report.
  - This report is created for each patient and is available in the patient list.

Update no. **SP003/05/P** was performed.

Material number: ....

Serial number: ....

Customer: ....   City: ....

Customer num-
ber: ....

Name (CSE): ....   Telephone: ....

Country: ....   City: ....

Date: ....   Signature: ....

Note: ....

....

NOTE	**After completing the update, make a copy of this page, fill it out and file it in the appropriate system binder/user handbook.**